

ANALYTICAL REPORT

Job Number: 580-15606-1

Job Description: Rainier Commons

For:

Clean Harbors Environmental Services Inc
19320 Des Moines Memorial Dr
Bldg D, Suite 400
Seatac, WA 98148

Attention: Shawn Estrada



Approved for release
Heather Curbow
Project Manager I
10/5/2009 2:41 PM

Heather Curbow
Project Manager I
heather.curbow@testamericainc.com
10/05/2009

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

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METHOD SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15606-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL TAC	SW846 8082	
Ultrasonic Extraction	TAL TAC		SW846 3550B
Metals (ICP)	TAL TAC	SW846 6010B	
Preparation, Metals	TAL TAC		SW846 3050B

Lab References:

TAL TAC = TestAmerica Tacoma

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15606-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-15606-1	RC 92109	Solid	09/21/2009 1100	09/22/2009 1135

Analytical Data

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15606-1

Client Sample ID: RC 92109

Lab Sample ID: 580-15606-1

Client Matrix: Solid

% Moisture: 22.0

Date Sampled: 09/21/2009 1100

Date Received: 09/22/2009 1135

6010B Metals (ICP)

Method: 6010B

Analysis Batch: 580-51434

Instrument ID: SEA027

Preparation: 3050B

Prep Batch: 580-51302

Lab File ID: N/A

Dilution: 1.0

Initial Weight/Volume: 1.0126 g

Date Analyzed: 10/02/2009 1505

Final Weight/Volume: 50 mL

Date Prepared: 10/02/2009 1001

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Lead		65		1.9

Quality Control Results

Client: Clean Harbors Environmental Services Inc

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Method Blank - Batch: 580-51302

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 580-51302/9-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1412
Date Prepared: 10/02/2009 1001

Analysis Batch: 580-51434
Prep Batch: 580-51302
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Lead	ND		1.5

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 580-51302

Method: 6010B
Preparation: 3050B

LCS Lab Sample ID: LCS 580-51302/10-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1415
Date Prepared: 10/02/2009 1001

Analysis Batch: 580-51434
Prep Batch: 580-51302
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-51302/11-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/02/2009 1420
Date Prepared: 10/02/2009 1001

Analysis Batch: 580-51434
Prep Batch: 580-51302
Units: mg/Kg

Instrument ID: SEA027
Lab File ID: N/A
Initial Weight/Volume: 1 g
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Lead	93	95	80 - 120	1	35		

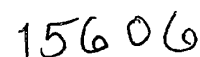
Calculations are performed before rounding to avoid round-off errors in calculated results.

DATA REPORTING QUALIFIERS

Client: Clean Harbors Environmental Services Inc

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Lab Section	Qualifier	Description
GC Semi VOA		
	I	Indicates the presence of an interference, recovery is not calculated.
	X	Surrogate exceeds the control limits

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Login Sample Receipt Check List

Client: Clean Harbors Environmental Services Inc

Job Number: 580-15606-1

Login Number: 15606

Creator: Presley, Kim

List Number: 1

List Source: TestAmerica Tacoma

Question	T / F / NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	no cooler or ice
Cooler Temperature is acceptable.	False	ambient
Cooler Temperature is recorded.	False	ambient
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	no time
There are no discrepancies between the sample IDs on the containers and the COC.	False	date on label is 9/22/09, time is on label (11:00).
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	N/A	